

Table 1
Bridgeton Radiological Chemistry

Parameter						Solids, total suspended	Uranium	Actinium-228	Bismuth 214	Cesium 137	Cobalt-60	Gross Alpha (radiation)	Gross Alpha (radiation)	Gross Beta (radiation)	Gross Beta (radiation)	Gross Gamma	Lead 210	
Total or Dissolved						NA	Total	NA	NA	NA	NA	Dissolved	NA	Dissolved	NA	NA	NA	
Location	Date	lab_name_code	Sample Type	Data Status	lab_sdg													
Outfall008	9/13/2013	Eberline	FD	QC Pending	13-10138	--	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	9/13/2013	Eberline	N	QC Pending	13-09091	--	--	13.4 +/- 8.30 pCi/l	1.38 +/- 4.04 pCi/l	--	--	216 +/- 106 pCi/l	--	819 +/- 169 pCi/l	589 +/- 79.2 pCi/l	--	--	
Outfall008	9/13/2013	Eberline	N	QC Pending	13-10138	--	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	9/13/2013	Heritage	N	QC pending	65229	14000 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	9/13/2013	Eberline	FD	QC Pending	13-09091	--	--	9.44 +/- 9.15 pCi/l	7.10 +/- 6.28 pCi/l	--	--	87.1 +/- 121 pCi/l	--	879 +/- 182 pCi/l	634 +/- 84.8 pCi/l	--	--	
Outfall008	6/18/2013	Eberline	N	QC Pending	13-06059	--	--	2.99 +/- 7.92 pCi/l	-4.18 +/- 3.91 pCi/l	1.54 +/- 1.67 pCi/l	--	46.6 +/- 57.1 pCi/l	--	429 +/- 102 pCi/l	--	--	--	
Outfall008	6/18/2013	Heritage	N	QC pending	64835	2800 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	6/18/2013	Eberline	FD	QC Pending	13-06059	--	--	3.18 +/- 7.78 pCi/l	0.840 +/- 4.12 pCi/l	0.00207 +/- 1.83 pCi/l	--	27.8 +/- 47.3 pCi/l	--	452 +/- 104 pCi/l	--	--	--	
Treat Commingled MSD	4/25/2013	PDC	N	Validated	3043568	1200 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Treat Commingled MSD	4/5/2013	Eberline	N	Validated	1306015	--	--	5.18 +/- 25.3 pCi/l	5.78 +/- 19.3 pCi/l	6.62 +/- 8.36 pCi/l	-5.34 +/- 7.14 pCi/l	117 +/- 91.3 pCi/l	-28.9 +/- 56.7 pCi/l	464 +/- 141 pCi/l	1860 +/- 290 BQX pCi/l	--	-111 +/- 190 pCi/l	--
Treat Commingled MSD	4/5/2013	PDC	N	Validated	3041134	1500 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Treat Commingled MSD	4/5/2013	TA	N	Validated	160-2039-1	--	< 100 ug/l	--	--	< 20.0 U pCi/l	--	--	3.71 +/- 57.3 UG pCi/l	--	--	--	--	--
Treat Commingled MSD	4/5/2013	Eberline	FD	Validated	1306015	--	--	-29.3 +/- 35.3 pCi/l	39.9 +/- 28.8 pCi/l	4.51 +/- 6.40 pCi/l	-6.80 +/- 8.53 pCi/l	--	-14.0 +/- 58.2 pCi/l	--	408 +/- 104 BQX pCi/l	--	34.5 +/- 197 pCi/l	--
LCH_Outfall008	12/13/2012	TA	N	QC Pending	160-1108-1	--	< 20 ug/l	--	--	< 20 pCi/l	--	--	< 3 UG pCi/l	--	379 +/- 80.4 pCi/l	--	--	--
Outfall008	12/13/2012	Heritage	N	QC pending	64037	340 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	9/19/2012	Heritage	N	QC pending	63614	1300 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	9/19/2012	TestAmerica	N	QC pending	F2190459	--	< 2.0 ug/l	--	--	0.5 +/- 5.6 U pCi/l	--	--	6 +/- 78 U pCi/l	--	331 +/- 74 pCi/l	--	--	--
Outfall008	5/15/2012	Heritage	N	QC pending	63070	660 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	5/15/2012	TestAmerica	N	QC pending	F2E150442	--	--	--	--	-1.4 +/- 6.6 U pCi/l	--	--	29 +/- 30 U pCi/l	--	160 +/- 33 pCi/l	--	--	--
Outfall008	5/15/2012	TestAmerica	FD	QC pending	F2E150442	--	--	--	--	1.9 +/- 5.3 U pCi/l	--	--	--	--	--	--	--	
Outfall008	3/6/2012	TestAmerica	N	QC pending	F2C080411	--	--	--	--	-0.5 +/- 7.3 U pCi/l	--	--	38 +/- 30 U pCi/l	--	183 +/- 33 pCi/l	--	--	--
Outfall008	3/6/2012	TestAmerica	FD	QC pending	F2C080411	--	--	--	--	0 +/- 4.5 U pCi/l	--	--	28 +/- 34 U pCi/l	--	170 +/- 32 pCi/l	--	--	--
Outfall008	11/29/2011	Heritage	N	QC pending	62465	61 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	11/29/2011	TestAmerica	N	QC pending	F1K290445	--	< 5.0 ug/l	--	--	-1.1 +/- 6.8 U pCi/l	--	--	21 +/- 15 pCi/l	--	72 +/- 14 pCi/l	--	--	--
Outfall008	8/18/2011	Heritage	N	QC pending	61987	46 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	8/18/2011	TestAmerica	N	QC pending	F1H180440	--	< 1.0 ug/l	--	--	-0.3 +/- 6.2 U pCi/l	--	--	31 +/- 19 pCi/l	--	59 +/- 12 pCi/l	--	--	--
Outfall008	5/11/2011	Heritage	N	QC pending	61541	23 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	5/11/2011	TestAmerica	N	QC pending	F1E110517	--	< 1.0 ug/l	--	--	-2.5 +/- 8.4 U pCi/l	--	--	8 +/- 18 U pCi/l	--	47 +/- 11 pCi/l	--	--	--
Outfall008	3/16/2011	Heritage	N	QC pending	61273	33 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	3/16/2011	TestAmerica	N	QC pending	F1C160545	--	16.8 +/- 2.3 ug/l	--	--	0.3 +/- 6.0 U pCi/l	--	--	3 +/- 13 U pCi/l	--	84 +/- 14 pCi/l	--	--	--
Outfall008	11/17/2010	Heritage	N	QC pending	60800	22 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	11/17/2010	TestAmerica	N	Validated	F0K170562	--	13.9 +/- 1.9 ug/l	--	--	2.6 +/- 7.0 U pCi/l	--	--	15 +/- 10 pCi/l	--	48.2 +/- 9.7 pCi/l	--	--	--
Outfall008	9/8/2010	Heritage	N	QC pending	60486	22 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	9/8/2010	TestAmerica	N	Validated	F0I080494	--	16.0 +/- 2.2 ug/l	--	--	0.6 +/- 7.9 U pCi/l	--	--	9 +/- 13 U pCi/l	--	58 +/- 13 pCi/l	--	--	--
Outfall008	5/25/2010	Heritage	N	QC pending	60022	62 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	5/25/2010	TestAmerica	N	Validated	F0E250568	--	0.705 +/- 0.041 ug/l	--	--	0.757 +/- 5.5 U pCi/l	--	--	5.21 +/- 2.0 U pCi/l	--	114 +/- 9.0 pCi/l	--	--	--
Outfall008	5/25/2010	TestAmerica	FD	Validated	F0E250568	--	0.909 +/- 0.051 ug/l	--	--	6.81 +/- 5.3 U pCi/l	--	--	1.25 +/- 1.2 U pCi/l	--	109 +/- 8.5 pCi/l	--	--	--
Outfall008	2/25/2010	Heritage	N	QC pending	59650	21 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	2/25/2010	TestAmerica	N	Validated	F0B250518	--	9.8 +/- 1.3 ug/l	--	--	3.5 +/- 8.4 U pCi/l	--	--	10 +/- 10 U pCi/l	--	56.3 +/- 9.4 pCi/l	--	--	--
Outfall008	11/4/2009	Heritage	N	Validated	59175	24 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	11/4/2009	TestAmerica	N	Validated	F9K040546	--	3.03 +/- 0.37 U ug/l	--	--	-0.06 +/- 5.8 U pCi/l	--	--	8 +/- 10 U pCi/l	--	73 +/- 13 pCi/l	--	--	--
Outfall008	8/6/2009	Heritage	N	Validated	58742	19 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	8/6/2009	TestAmerica	N	Validated	F9H060204	--	2.57 +/- 0.40 U ug/l	--	--	-0.7 +/- 9.2 U pCi/l	--	--	18 +/- 10 pCi/l	--	50.8 +/- 9.7 pCi/l	--	--	--
Outfall008	8/6/2009	TestAmerica	FD	Validated	F9H060204	--	--	--	--	1 +/- 8.6 U pCi/l	--	--	9 +/- 12 U pCi/l	--	58 +/- 11 U pCi/l	--	--	--
Outfall008	5/7/2009	Heritage	N	Validated	58370	25 mg/l	--	--	--	--	--	--	--	--	--	--	--	
Outfall008	5/7/2009	TestAmerica	N	Validated	F9E080107	--	6.09 +/- 0.83 ug/l	--	--	0 +/- 9.4 U pCi/l	--	--	11.0 +/- 9					

Table 1
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Outfall006	8/20/2007	TestAmerica	N	Validated	F7H220163	Outfall006	8/20/2007	TestAmerica	N	Validated	F7H220163	--	-20.0 +/- 2.6 U* ug/l	--	--	--	2.8 +/- 8.9 U pCi/l	--	--
Outfall006	8/20/2007	TestAmerica	FD	Validated	F7H220163	Outfall006	8/20/2007	TestAmerica	FD	Validated	F7H220163	--	--	--	--	-1.3 +/- 9.5 U pCi/l	--	--	
Outfall006	5/22/2007	Heritage	N	Validated	55411.1	Outfall006	5/22/2007	Heritage	N	Validated	55411.1	40 mg/l	--	--	--	--	--	--	--
Outfall006	5/22/2007	TestAmerica	N	Validated	F7E220283	Outfall006	5/22/2007	TestAmerica	N	Validated	F7E220283	--	-0.514 +/- 0.086 U ug/l	--	--	--	-2.1 +/- 7.8 U pCi/l	--	--
Outfall006	5/21/2007	TestAmerica	N	Validated	F7E220283	Outfall006	5/21/2007	TestAmerica	N	Validated	F7E220283	--	-0.48 +/- 0.10 U ug/l	--	--	--	1.9 +/- 7.4 U pCi/l	--	--
Outfall006	5/21/2007	TestAmerica	FD	Validated	F7E220283	Outfall006	5/21/2007	TestAmerica	FD	Validated	F7E220283	--	--	--	--	--	--	--	--
Outfall006	3/8/2007	Heritage	N	Validated	5400	Outfall006	3/8/2007	Heritage	N	Validated	5400	25 h mg/l	--	--	--	--	--	--	--
Outfall006	3/8/2007	TestAmerica	N	Validated	F7C080312	Outfall006	3/8/2007	TestAmerica	N	Validated	F7C080312	--	0.424 +/- 0.065 U ug/l	--	--	--	7.2 +/- 8.0 U pCi/l	--	--
Outfall006	3/8/2007	TestAmerica	FD	Validated	F7C080312	Outfall006	3/8/2007	TestAmerica	FD	Validated	F7C080312	--	--	--	--	-9.3 +/- 8.7 U pCi/l	--	--	
Outfall006	12/21/2006	Heritage	N	Validated	5182	Outfall006	12/21/2006	Heritage	N	Validated	5182	39 h mg/l	--	--	--	--	--	--	--
Outfall006	12/21/2006	TestAmerica	N	Validated	F6L210233	Outfall006	12/21/2006	TestAmerica	N	Validated	F6L210233	--	6.88 +/- 0.86 ug/l	--	--	--	-3 +/- 10 U pCi/l	--	--
Outfall006	12/21/2006	TestAmerica	FD	Validated	F6L210233	Outfall006	12/21/2006	TestAmerica	FD	Validated	F6L210233	--	--	--	--	2.0 +/- 9.0 U pCi/l	--	--	
Outfall006	7/26/2006	Heritage	N	QC pending	4611	Outfall006	7/26/2006	Heritage	N	QC pending	4611	22 mg/l	--	--	--	--	--	--	--
Outfall006	6/15/2006	Heritage	N	QC pending	4514	Outfall006	6/15/2006	Heritage	N	QC pending	4514	1200 mg/l	--	--	--	--	--	--	--
Outfall006	1/19/2006	Heritage	N	QC pending	4063	Outfall006	1/19/2006	Heritage	N	QC pending	4063	150 mg/l	--	--	--	--	--	--	--

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Parameter						Gross Alpha (radiation)	Gross Beta (radiation)	Gross Beta (radiation)	Gross Gamma	Lead 210	Lead 212	Lead 214	Polonium 210	Potassium	Potassium 40	Radium 226	Radium 228
Location	Date	lab_name_code	Sample Type	Data Status	lab_sdg	NA	Dissolved	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Outfall008	9/13/2013	Eberline	FD	QC Pending	13-10138	--	--	--	--	--	--	--	0.0654 +/- 0.157 pCi/l	--	--	--	--
Outfall008	9/13/2013	Eberline	N	QC Pending	13-09091	216 +/- 106 pCi/l	--	819 +/- 169 pCi/l	589 +/- 79.2 pCi/l	--	4.06 +/- 2.78 pCi/l	5.57 +/- 3.80 pCi/l	--	--	589 +/- 79.2 pCi/l	pCi/l	2.09 +/- 1.33 pCi/l
Outfall008	9/13/2013	Eberline	N	QC Pending	13-10138	--	--	--	--	--	--	--	0.683 +/- 0.472 pCi/l	--	--	--	--
Outfall008	9/13/2013	Heritage	N	QC pending	65229	--	--	--	--	--	--	--	--	--	--	--	--
Outfall008	9/13/2013	Eberline	FD	QC Pending	13-09091	87.1 +/- 121 pCi/l	--	879 +/- 182 pCi/l	634 +/- 84.8 pCi/l	--	1.57 +/- 2.82 pCi/l	2.41 +/- 3.65 pCi/l	--	--	634 +/- 84.8 pCi/l	pCi/l	0.987 +/- 1.25 pCi/l
Outfall008	6/18/2013	Eberline	N	QC Pending	13-06059	46.6 +/- 57.1 pCi/l	--	429 +/- 102 pCi/l	--	--	1.81 +/- 2.72 pCi/l	-1.24 +/- 3.58 pCi/l	--	--	376 +/- 70.0 pCi/l	pCi/l	2.64 +/- 0.904 pCi/l
Outfall008	6/18/2013	Heritage	N	QC pending	64835	--	--	--	--	--	--	--	--	--	--	--	--
Outfall008	6/18/2013	Eberline	FD	QC Pending	13-06059	27.8 +/- 47.3 pCi/l	--	452 +/- 104 pCi/l	--	--	3.80 +/- 3.65 pCi/l	1.61 +/- 3.56 pCi/l	--	--	393 +/- 68.4 pCi/l	pCi/l	0.289 +/- 0.596 pCi/l
Treat Cmingled MSD	4/25/2013	PDC	N	Validated	3043568	--	--	--	--	--	--	--	--	--	--	--	--
Treat Cmingled MSD	4/5/2013	Eberline	N	Validated	1306015	-28.9 +/- 56.7 pCi/l	464 +/- 141 pCi/l	1860 +/- 290 BQX pCi/l	--	-111 +/- 190 pCi/l	--	-5.80 +/- 16.5 pCi/l	--	557000 ug/l	456 +/- 45.6 pCi/l	--	11.0 +/- 5.79 pCi/l
Treat Cmingled MSD	4/5/2013	PDC	N	Validated	3041134	--	--	--	--	--	--	--	--	--	--	--	--
Treat Cmingled MSD	4/5/2013	TA	N	Validated	160-2039-1	3.71 +/- 57.3 UG pCi/l	--	--	--	--	--	--	--	--	11.4 +/- 2.24 pCi/l	5.36 +/- 3.98 UG pCi/l	
Treat Cmingled MSD	4/5/2013	Eberline	FD	Validated	1306015	-14.0 +/- 58.2 pCi/l	--	408 +/- 104 BQX pCi/l	--	34.5 +/- 197 pCi/l	--	-2.57 +/- 17.8 pCi/l	--	--	278 +/- 187 pCi/l	--	6.99 +/- 6.33 pCi/l
LCH_Outfall008	12/13/2012	TA	N	QC Pending	160-1108-1	< 3 UG pCi/l	--	379 +/- 80.4 pCi/l	--	--	--	--	--	--	14.0 +/- 3.19 pCi/l	9.69 +/- 3.81 pCi/l	
Outfall008	12/13/2012	Heritage	N	QC pending	64037	--	--	--	--	--	--	--	--	--	--	--	--
Outfall008	9/19/2012	Heritage	N	QC pending	63614	--	--	--	--	--	--	--	--	--	--	--	--
Outfall008	9/19/2012	TestAmerica	N	QC pending	F2I190459	6 +/- 78 U pCi/l	--	331 +/- 74 pCi/l	--	--	--	--	--	--	--	13.1 +/- 2.7 pCi/l	7.3 +/- 2.7 pCi/l
Outfall008	5/15/2012	Heritage	N	QC pending	63070	--	--	--	--	--	--	--	--	--	--	--	--
Outfall008	5/15/2012	TestAmerica	N	QC pending	F2E150442	29 +/- 30 U pCi/l	--	160 +/- 33 pCi/l	--	--	--	--	--	--	8.6 +/- 2.6 pCi/l	3.7 +/- 3.3 U pCi/l	
Outfall008	5/15/2012	TestAmerica	FD	QC pending	F2E150442	--	--	--	--	--	--	--	--	--	13.4 +/- 3.1 pCi/l	6.2 +/- 2.8 pCi/l	
Outfall008	3/6/2012	TestAmerica	N	QC pending	F2C080411	38 +/- 30 U pCi/l	--	183 +/- 33 pCi/l	--	--	--	--	--	--	9.0 +/- 3.8 pCi/l	7.0 +/- 4.9 U pCi/l	
Outfall008	3/6/2012	TestAmerica	FD	QC pending	F2C080411	28 +/- 34 U pCi/l	--	170 +/- 32 pCi/l	--	--	--	--	--	--	10.8 +/- 3.9 pCi/l	8.9 +/- 5.1 pCi/l	
Outfall008	11/29/2011	Heritage	N	QC pending	62465	--	--	--	--	--	--	--	--	--	--	--	--
Outfall008	11/29/2011	TestAmerica	N	QC pending	F1K290445	21 +/- 15 pCi/l	--	72 +/- 14 pCi/l	--	--	--	--	--	--	5.16 +/- 0.77 pCi/l	1.13 +/- 0.51 pCi/l	
Outfall008	8/18/2011	Heritage	N	QC pending	61987	--	--	--	--	--	--	--	--	--	--	--	--
Outfall008	8/18/2011	TestAmerica	N	QC pending	F1H180440	31 +/- 19 pCi/l	--	59 +/- 12 pCi/l	--	--	--	--	--	--	3.3 +/- 1.0 pCi/l	2.5 +/- 1.1 pCi/l	
Outfall008	5/11/2011	Heritage	N	QC pending	61541	--	--	--	--	--	--	--	--	--	--	--	--
Outfall008	5/11/2011	TestAmerica	N	QC pending	F1E110517	8 +/- 18 U pCi/l	--	47 +/- 11 pCi/l	--	--	--	--	--	--	3.22 +/- 0.38 pCi/l	2.04 +/- 0.43 pCi/l	
Outfall008	3/16/2011	Heritage	N	QC pending	61273	--	--	--	--	--	--	--	--	--	--	--	--
Outfall008	3/16/2011	TestAmerica	N	QC pending	F1C160545	3 +/- 13 U pCi/l	--	84 +/- 14 pCi/l	--	--	--	--	--	--	4.6 +/- 1.1 pCi/l	1.8 +/- 1.4 U pCi/l	
Outfall008	11/17/2010	Heritage	N	QC pending	60800	--	--	--	--	--	--	--	--	--	--	--	--
Outfall008	11/17/2010	TestAmerica	N	Validated	F0K170562	15 +/- 10 pCi/l	--	48.2 +/- 9.7 pCi/l	--	--	--	--	--	--	4.31 +/- 0.76 pCi/l	1.02 +/- 0.47 pCi/l	
Outfall008	9/8/2010	Heritage	N	QC pending	60486	--	--	--	--	--	--	--	--	--	--	--	--
Outfall008	9/8/2010	TestAmerica	N	Validated	F0I080494	9 +/- 13 U pCi/l	--	58 +/- 13 pCi/l	--	--	--	--	--	--	2.81 +/- 0.50 pCi/l	1.46 +/- 0.68 pCi/l	
Outfall008	5/25/2010	Heritage	N	QC pending	60022	--	--	--	--	--	--	--	--	--	--	--	--
Outfall008	5/25/2010	TestAmerica	N	Validated	F0E250568	5.21 +/- 2.0 U pCi/l	--	114 +/- 9.0 pCi/l	--	--	--	--	--	--	3.24 +/- 0.34 pCi/l	2.18 +/- 0.26 pCi/l	
Outfall008	5/25/2010	TestAmerica	FD	Validated	F0E250568	1.25 +/- 1.2 U pCi/l	--	109 +/- 8.5 pCi/l	--	--	--	--	--	--	3.35 +/- 0.36 pCi/l	2.23 +/- 0.25 pCi/l	
Outfall008	2/25/2010	Heritage	N	QC pending	59650	--	--	--	--	--	--	--	--	--	--	--	--
Outfall008	2/25/2010	TestAmerica	N	Validated	F0B250518	10 +/- 10 U pCi/l	--	56.3 +/- 9.4 pCi/l	--	--	--	--	--	--	3.60 +/- 0.53 pCi/l	1.26 +/- 0.46 pCi/l	
Outfall008	11/4/2009	Heritage	N	Validated	59175	--	--	--	--	--	--	--	--	--	--	--	--
Outfall008	11/4/2009	TestAmerica	N	Validated	F9K040546	8 +/- 10 U pCi/l	--	73 +/- 13 pCi/l	--	--	--	--	--	--	3.71 +/- 0.50 pCi/l	1.24 +/- 0.53 pCi/l	
Outfall008	8/6/2009	Heritage	N	Validated	58742	--	--	--	--	--	--	--	--	--	--	--	--
Outfall008	8/6/2009	TestAmerica	N	Validated	F9H060204	18 +/- 10 pCi/l	--	50.8 +/- 9.7 pCi/l	--	--	--	--	--	--	3.51 +/- 0.42 pCi/l	1.59 +/- 0.37 pCi/l	
Outfall008	8/6/2009	TestAmerica	FD	Validated	F9H060204	9 +/- 12 U pCi/l	--	58 +/- 11 U pCi/l	--	--	--	--	--	--	--	--	--
Outfall008	5/7/2009	Heritage	N	Validated	58370	--	--										

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Outfall006	8/20/2007	TestAmerica	N	Validated	F7H220163	12 +/- 12 U pCi/l	--	71 +/- 14 pCi/l	--	--	--	--	--	--	--	4.66 +/- 0.80 pCi/l	1.3 +/- 1.1 U pCi/l
Outfall006	8/20/2007	TestAmerica	FD	Validated	F7H220163	--	--	--	--	--	--	--	--	--	--	--	--
Outfall006	5/22/2007	Heritage	N	Validated	55411.1	--	--	--	--	--	--	--	--	--	--	--	--
Outfall006	5/22/2007	TestAmerica	N	Validated	F7E220283	24 +/- 13 pCi/l	--	78 +/- 14 pCi/l	--	--	--	--	--	--	--	5.62 +/- 0.81 pCi/l	1.73 +/- 0.74 pCi/l
Outfall006	5/21/2007	TestAmerica	N	Validated	F7E220283	18 +/- 13 U pCi/l	--	68 +/- 13 U pCi/l	--	--	--	--	--	--	--	4.34 +/- 0.64 pCi/l	1.40 +/- 0.54 pCi/l
Outfall006	5/21/2007	TestAmerica	FD	Validated	F7E220283	11 +/- 12 U pCi/l	--	63 +/- 12 pCi/l	--	--	--	--	--	--	--	--	--
Outfall006	3/8/2007	Heritage	N	Validated	5400	--	--	--	--	--	--	--	--	--	--	--	--
Outfall006	3/8/2007	TestAmerica	N	Validated	F7C080312	14 +/- 17 U pCi/l	--	88 +/- 16 pCi/l	--	--	--	--	--	--	--	6.26 +/- 0.88 pCi/l	2.12 +/- 0.59 pCi/l
Outfall006	3/8/2007	TestAmerica	FD	Validated	F7C080312	--	--	--	--	--	--	--	--	--	--	--	--
Outfall006	12/21/2006	Heritage	N	Validated	5182	--	--	--	--	--	--	--	--	--	--	--	--
Outfall006	12/21/2006	TestAmerica	N	Validated	F6L210233	15 +/- 15 U pCi/l	--	81 +/- 17 pCi/l	--	--	--	--	--	--	--	125 +/- 94 U pCi/l	4.42 +/- 0.72 pCi/l
Outfall006	12/21/2006	TestAmerica	FD	Validated	F6L210233	--	--	--	--	--	--	--	--	--	--	30 +/- 120 U pCi/l	--
Outfall006	7/26/2006	Heritage	N	QC pending	4611	--	--	--	--	--	--	--	--	--	--	--	--
Outfall006	6/15/2006	Heritage	N	QC pending	4514	--	--	--	--	--	--	--	--	--	--	--	--
Outfall006	1/19/2006	Heritage	N	QC pending	4063	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Bridgeton Radiological Chemistry

Parameter						Thallium 208	Thorium 228	Thorium 230	Thorium 232	Thorium 234	Total Activity	Uranium 234	Uranium 235	Uranium 238
Total or Dissolved						NA	NA	NA	NA	NA	NA	NA	NA	NA
Location	Date	lab_name_code	Sample Type	Data Status	lab_sdg									
Outfall008	9/13/2013	Eberline	FD	QC Pending	13-10138	--	-0.598 +/- 1.28 pCi/l	--	0.464 +/- 1.13 pCi/l	--	--	--	--	--
Outfall008	9/13/2013	Eberline	N	QC Pending	13-09091	3.99 +/- 5.27 pCi/l	--	--	--	86.7 +/- 48.9 pCi/l	--	1.82 +/- 0.990 pCi/l	0.943 +/- 0.821 pCi/l	2.47 +/- 1.15 pCi/l
Outfall008	9/13/2013	Eberline	N	QC Pending	13-10138	--	0.664 +/- 1.11 pCi/l	1.75 +/- 1.45 pCi/l	0.938 +/- 1.06 pCi/l	--	--	--	--	--
Outfall008	9/13/2013	Heritage	N	QC pending	65229	--	--	--	--	--	--	--	--	--
Outfall008	9/13/2013	Eberline	FD	QC Pending	13-09091	9.02 +/- 5.66 pCi/l	--	--	--	48.2 +/- 48.8 pCi/l	--	3.10 +/- 1.38 pCi/l	0.735 +/- 0.809 pCi/l	2.20 +/- 1.15 pCi/l
Outfall008	6/18/2013	Eberline	N	QC Pending	13-06059	4.31 +/- 5.57 pCi/l	--	--	--	-9.61 +/- 33.7 pCi/l	--	0.955 +/- 0.532 pCi/l	0.0549 +/- 0.168 pCi/l	0.380 +/- 0.328 pCi/l
Outfall008	6/18/2013	Heritage	N	QC pending	64835	--	--	--	--	--	--	--	--	--
Outfall008	6/18/2013	Eberline	FD	QC Pending	13-06059	0.205 +/- 5.57 pCi/l	--	--	--	-33.1 +/- 33.1 pCi/l	--	1.09 +/- 0.547 pCi/l	0.0113 +/- 0.158 pCi/l	0.943 +/- 0.513 pCi/l
Treat Commingled MSD	4/25/2013	PDC	N	Validated	3043568	--	--	--	--	--	--	--	--	--
Treat Commingled MSD	4/5/2013	Eberline	N	Validated	1306015	30.9 +/- 30.2 pCi/l	--	--	--	-203 +/- 187 pCi/l	180 +/- 293 pCi/l	--	--	--
Treat Commingled MSD	4/5/2013	PDC	N	Validated	3041134	--	--	--	--	--	--	--	--	--
Treat Commingled MSD	4/5/2013	TA	N	Validated	160-2039-1	--	--	--	--	--	--	--	--	--
Treat Commingled MSD	4/5/2013	Eberline	FD	Validated	1306015	22.8 +/- 25.1 pCi/l	--	--	--	29.8 +/- 187 pCi/l	0 +/- 289 pCi/l	--	--	--
LCH_Outfall008	12/13/2012	TA	N	QC Pending	160-1108-1	--	--	--	--	--	--	--	--	--
Outfall008	12/13/2012	Heritage	N	QC pending	64037	--	--	--	--	--	--	--	--	--
Outfall008	9/19/2012	Heritage	N	QC pending	63614	--	--	--	--	--	--	--	--	--
Outfall008	9/19/2012	TestAmerica	N	QC pending	F2I190459	--	--	--	--	--	--	--	--	--
Outfall008	5/15/2012	Heritage	N	QC pending	63070	--	--	--	--	--	--	--	--	--
Outfall008	5/15/2012	TestAmerica	N	QC pending	F2E150442	--	--	--	--	--	--	--	--	--
Outfall008	5/15/2012	TestAmerica	FD	QC pending	F2E150442	--	--	--	--	--	--	--	--	--
Outfall008	3/6/2012	TestAmerica	N	QC pending	F2C080411	--	--	--	--	--	--	--	--	--
Outfall008	3/6/2012	TestAmerica	FD	QC pending	F2C080411	--	--	--	--	--	--	--	--	--
Outfall008	11/29/2011	Heritage	N	QC pending	62465	--	--	--	--	--	--	--	--	--
Outfall008	11/29/2011	TestAmerica	N	QC pending	F1K290445	--	--	--	--	--	--	--	--	--
Outfall008	8/18/2011	Heritage	N	QC pending	61987	--	--	--	--	--	--	--	--	--
Outfall008	8/18/2011	TestAmerica	N	QC pending	F1H180440	--	--	--	--	--	--	--	--	--
Outfall008	5/11/2011	Heritage	N	QC pending	61541	--	--	--	--	--	--	--	--	--
Outfall008	5/11/2011	TestAmerica	N	QC pending	F1E110517	--	--	--	--	--	--	--	--	--
Outfall008	3/16/2011	Heritage	N	QC pending	61273	--	--	--	--	--	--	--	--	--
Outfall008	3/16/2011	TestAmerica	N	QC pending	F1C160545	--	--	--	--	--	--	--	--	--
Outfall008	11/17/2010	Heritage	N	QC pending	60800	--	--	--	--	--	--	--	--	--
Outfall008	11/17/2010	TestAmerica	N	Validated	F0K170562	--	--	--	--	--	--	--	--	--
Outfall008	9/8/2010	Heritage	N	QC pending	60486	--	--	--	--	--	--	--	--	--
Outfall008	9/8/2010	TestAmerica	N	Validated	F0I080494	--	--	--	--	--	--	--	--	--
Outfall008	5/25/2010	Heritage	N	QC pending	60022	--	--	--	--	--	--	--	--	--
Outfall008	5/25/2010	TestAmerica	N	Validated	F0E250568	--	--	--	--	--	--	--	--	--
Outfall008	5/25/2010	TestAmerica	FD	Validated	F0E250568	--	--	--	--	--	--	--	--	--
Outfall008	2/25/2010	Heritage	N	QC pending	59650	--	--	--	--	--	--	--	--	--
Outfall008	2/25/2010	TestAmerica	N	Validated	F0B250518	--	--	--	--	--	--	--	--	--
Outfall008	11/4/2009	Heritage	N	Validated	59175	--	--	--	--	--	--	--	--	--
Outfall008	11/4/2009	TestAmerica	N	Validated	F9K040546	--	--	--	--	--	--	--	--	--
Outfall008	8/6/2009	Heritage	N	Validated	58742	--	--	--	--	--	--	--	--	--
Outfall008	8/6/2009	TestAmerica	N	Validated	F9H060204	--	--	--	--	--	--	--	--	--
Outfall008	8/6/2009	TestAmerica	FD	Validated	F9H060204	--	--	--	--	--	--	--	--	--
Outfall008	5/7/2009	Heritage	N	Validated	58370	--	--	--	--	--	--	--	--	--
Outfall008	5/7/2009	TestAmerica	N	Validated	F9E080107	--	--	--	--	--	--	--	--	--
Outfall008	2/12/2009	Heritage	N	Validated	58064	--	--	--	--	--	--	--	--	--
Outfall008	2/12/2009	TestAmerica	N	Validated	F9B120270	--	--	--	--	--	--	--	--	--
Outfall008	11/4/2008	Heritage	N	Validated	57674	--	--	--	--	--	--	--	--	--
Outfall008	11/4/2008	TestAmerica	N	Validated	F8K050146	--	--	--	--	--	--	--	--	--
Outfall008	11/4/2008	TestAmerica	FD	Validated	F8K050146	--	--	--	--	--	--	--	--	--
Outfall008	7/16/2008	Heritage	N	Validated	57153	--	--	--	--	--	--	--	--	--
Outfall008	7/16/2008	TestAmerica	N	Validated	F8G160271	--	--	--	--	--	--	--	--	--
Outfall008	7/16/2008	TestAmerica	FD	Validated	F8G160271	--	--	--	--	--	--	--	--	--
Outfall008	5/6/2008	Heritage	N	Validated	56732	--	--	--	--	--	--	--	--	--
Outfall008	5/6/2008	TestAmerica	N	Validated	F8E060240	--	--	--	--	--	--	--	--	--
Outfall008	5/6/2008	TestAmerica	FD	Validated	F8E060240	--	--	--	--	--	--	--	--	--
Outfall008	3/13/2008	Heritage	N	Validated	65044	--	--	--	--	--	--	--	--	--
Outfall008	3/13/2008	TestAmerica	N	Validated	F8C130342	--	--	--	--	--	--	--	--	--
Outfall008	3/13/2008	TestAmerica	FD	Validated	F8C130342	--	--	--	--	--	--	--	--	--
Outfall008	11/29/2007	Heritage	N	Validated	56024	--	--	--	--	--	--	--	--	--
Outfall008	11/29/2007	TestAmerica	N	Validated	F7K290239	--	--	--	--	--	--	--	--	--
Outfall008	11/29/2007	TestAmerica	FD	Validated	F7K290239	--								

Table 1
Bridgeton Radiological Chemistry

Outfall006	8/20/2007	TestAmerica	N	Validated	F7H220163	--	--	--	--	--	--	--	--	--
Outfall006	8/20/2007	TestAmerica	FD	Validated	F7H220163	--	--	--	--	--	--	--	--	--
Outfall006	5/22/2007	Heritage	N	Validated	55411.1	--	--	--	--	--	--	--	--	--
Outfall006	5/22/2007	TestAmerica	N	Validated	F7E220283	--	--	--	--	--	--	--	--	--
Outfall006	5/21/2007	TestAmerica	N	Validated	F7E220283	--	--	--	--	--	--	--	--	--
Outfall006	5/21/2007	TestAmerica	FD	Validated	F7E220283	--	--	--	--	--	--	--	--	--
Outfall006	3/8/2007	Heritage	N	Validated	5400	--	--	--	--	--	--	--	--	--
Outfall006	3/8/2007	TestAmerica	N	Validated	F7C080312	--	--	--	--	--	--	--	--	--
Outfall006	3/8/2007	TestAmerica	FD	Validated	F7C080312	--	--	--	--	--	--	--	--	--
Outfall006	12/21/2006	Heritage	N	Validated	5182	--	--	--	--	--	--	--	--	--
Outfall006	12/21/2006	TestAmerica	N	Validated	F6L210233	--	--	--	--	--	--	--	--	--
Outfall006	12/21/2006	TestAmerica	FD	Validated	F6L210233	--	--	--	--	--	--	--	--	--
Outfall006	7/26/2006	Heritage	N	QC pending	4611	--	--	--	--	--	--	--	--	--
Outfall006	6/15/2006	Heritage	N	QC pending	4514	--	--	--	--	--	--	--	--	--
Outfall006	1/19/2006	Heritage	N	QC pending	4063	--	--	--	--	--	--	--	--	--

Data Qualifiers/Footnotes	
Qualifier	Definition
--	Not analyzed/not available.
a	Estimated value, calculated using some or all values that are estimates.
b	Potential false positive value based on blank data validation procedures.
c	Coeluting compound.
e	Estimated value, exceeded the instrument calibration range.
f	Sample was collected at a flowrate exceeding the recommended rate of 200 mL/minute.
h	EPA recommended sample preservation, extraction or analysis holding time was exceeded.
i	Indeterminate value based on failure of blind duplicate data to meet quality assurance criteria.
j	Reported value is less than the stated laboratory quantitation limit and is considered an estimated value.
p	Relative percent difference is >40% (25% CLP pesticides) between primary and confirmation GC columns.
pp	Small peak in chromatogram below method detection limit.
r	The presence of the compound is suspect based on the ID criteria of the retention time and relative retention time obtained from the examination of the chromatograms.
s	Potential false positive value based on statistical analysis of blank sample data.
t	Sample positive for total coliforms but negative for <i>E. coli</i> .
v	Sample was collected under a vacuum of greater than XX inches of mercury.
*	Estimated value, QA/QC criteria not met.
**	Unusable value, QA/QC criteria not met.
N	Sample Type: Normal
FD	Sample Type: Field Duplicate
AT	Sample chromatogram is noted to be atypical of a petroleum product.
DLND	Not detected, detection limit not determined.
DF	Did not flash
EMPC	Estimated maximum possible concentration.
NA – (Not applicable)	NA indicates that a fractional portion of the sample is not part of the analytical testing or field collection procedures.
ND	Not detected.
TIC	Tentatively identified compound
BQA	Barr-applied project specific qualifier: extraction and/or analyses conducted using an alternative method and/or procedure.
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BQE	Barr-applied project specific qualifier: equipment adjustment.
BQM	Barr-applied project specific qualifier: manual measurement.
BQN	Barr-applied project specific qualifier: unable to be sampled or measured due to various reasons.
BQP	Barr-applied project specific qualifier: atypical chromatographic pattern.
BQQ	Barr-applied project specific qualifier: some aspect of QA/QC was not met.
BQR	Barr-applied project specific qualifier: location was re-sampled.
BQS	Barr-applied project specific qualifier: data is considered suspect.
BQT	Barr-applied project specific qualifier: summed value not displayed due to insufficient field length.
BQU	Barr-applied project specific qualifier: historical qualifier - definition unknown.
BQV	Barr-applied project specific qualifier: estimated value.
BQX	Barr-applied project specific qualifier: see notes for qualifier definition.
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